



GSI-191, “ASSESSMENT OF DEBRIS ACCUMULATION ON PWR SUMP PERFORMANCE”

STATUS OF NRC REGULATORY ACTIVITIES

Ralph Architzel, Plant Systems Branch, NRR





ECCS Action Plan

- GSI-191 Resolution Part IV of NRR Action Plan
 - PART I: **BWR ECCS SUCTION STRAINER CLOGGING ISSUE**
 - PART II: **NPSH EVALUATIONS**
 - PART III: **CONTAINMENT COATINGS**
 - Staff Efforts on Other Parts Complete; results feed into GSI-191 Resolution
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Resolution Process for GSI-191

- Will be industry-led and NRC-monitored
 - Frequent Meetings and Coordination with PWR Sump Performance Taskforce
 - Parallels the Approach to Resolve BWR Strainer Issues
 - ▶ Bulletin 2003-01 for Interim Measures to reduce risk
 - ▶ Generic Letter Planned to Address Plant Specific Evaluation
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Interactions with NEI PWR Sump Performance Task Force

- Monitored and Commented on NEI 02-01, Condition Assessment Guidelines: Debris Sources Inside PWR Containments
 - ▶ Knowledge gained during assessments reduces implementation delays
 - ▶ Confirms Configuration and Condition
 - Participate in Development of Industry Evaluation Guidelines
 - ▶ Pre-review of selected topics
 - ▶ Allows reduced NRC review schedule
 - ▶ Plan to Consider viability of Fracture Mechanics approach pending additional information
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GSI-191 Resolution Activities

- NRC plans to issue a Safety Evaluation Report on the Evaluation Methodology
 - ▶ 6 month expedited review (August 2004)
 - ▶ Similar to BWRs, NRC will evaluate earlier implementations if requested
 - BWR licensees implementing before approval treated conservatively
 - NRC plans to use sample audits to perform detailed verification of licensees' sump-clogging evaluations
 - Standard Review Plan Revision following SER/TER
 - Downstream blockage issues to be considered during GSI-191 Resolution
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NRC Contacts

■ NRR Responsible for Regulatory Closure

- ▶ Technical Lead Plant Systems Branch
 - Sunil Weerakkody, SC, (301) 415-2870
 - Ralph Architzel, (301) 415-2804
 - John Lehning, (301) 415-3285
 - Joe Golla, (301) 415-1002 (Downstream blockage issues)
- ▶ NRR Projects Lead PM John Lamb, (301) 415-1446

■ Resolution Technical Support

- ▶ Research Technical Contact: Tsun-Yung Chang, (301) 415-6450
- ▶ Los Alamos National Laboratory: Bruce Letellier, (505)-665-5188